

327 SIDEWALK INTERCEPTOR DRAINS, CONNECTIONS, GRATINGS AND TRAPS

327.01 DESCRIPTION

(A) SIDEWALK INTERCEPTOR DRAINS. Work consists of the construction of sidewalk interceptor drains at the entrances to service stations, garages, or other similar places where it is necessary to relocate existing drains due to roadway construction. They shall be constructed to the dimensions and at the locations as shown in the contract documents, or as directed by the Engineer.

(B) CAST IRON DRAIN CONNECTIONS. Work consists of making the necessary connections for sidewalk intercept drains for service stations and/or garages to intercepting traps and/or existing or proposed storm sewers, and reconnecting rain leaders to the curb, where these connections or reconnections are due to roadway construction.

(C) CAST IRON GRATING REPLACEMENTS. Work consists of replacing cast iron gratings in garage and/or interceptor drains that are broken during construction operations. They shall conform in size and dimensions as closely as possible to the existing grating.

(D) GARAGE INTERCEPTING TRAPS. Work consists of constructing concrete garage intercepting traps to the dimensions and at the locations as shown on the contract drawings.

327.02 MATERIALS

Steel/angle iron - 815.01(A)

Ductile Iron for gratings - 815.05

Cast Iron Soil Pipe - 809.03

PCC - 817, Class B

Mortar - 806.05(B)(4)

327.03 CONSTRUCTION REQUIREMENTS

(A) SIDEWALK INTERCEPTOR DRAINS. Work shall be done in strict conformance with applicable provisions for PCC construction of these specifications and the Plumbing Code of the District of Columbia with the following exceptions:

The bottom of the concrete drains shall be placed on the existing, undisturbed ground or the prepared,

compacted fill neatly graded to the required elevation and dimensions as shown on the contract drawings. Excavations shall be per 207 and kept dry for the placing of concrete. The drains shall be placed as soon as practicable after excavation is complete to grade.

All vertical faces of PCC shall be formed. Forms shall be mortar tight, securely braced and tied to prevent movement and shall remain in place for at least 24 hours after PCC is placed.

PCC shall be consolidated by continuous working with tools and/or spud vibrators meeting the requirements of 905.07(B) during and immediately after placement in the forms. The vibration shall be of sufficient duration to consolidate the PCC but shall not be continued so as to cause segregation.

The angle iron frame for the grating shall be inserted in the PCC to the desired elevation when the PCC is still sufficiently plastic to do so without disturbing the forms or the top surface of the PCC drain.

The cast iron outlet pipe shall extend through the wall a sufficient distance to permit proper connections from the outside and cut flush with the inside wall. The area around the pipe shall be completely and neatly sealed with mortar.

The exposed sides of all angle irons shall be painted with one coat of primer paint and two coats of black paint prior to placement in the PCC. Painting shall be done as specified in 707.

(B) CAST IRON DRAIN CONNECTIONS. The intercept drain connections and the drain leader connections shall be constructed in accordance with the D.C. Plumbing Code.

(C) CAST IRON GRATING REPLACEMENTS. Work shall be in accordance with the D.C. Plumbing Code.

(D) GARAGE INTERCEPTING TRAPS. PCC garage intercepting traps shall be constructed on existing, undisturbed ground or on prepared, compacted fill, neatly graded to the required elevation and dimensions as shown on the contract drawings. Excavation shall be per 207 and kept dry for the placing of concrete. The work shall be done in accordance with the D.C. Plumbing Code.

All vertical faces of the walls shall be formed. Forms shall be mortar tight, securely braced and tied to prevent movement and shall remain in place for at least 24 hours after PCC is placed.

Inlet and outlet pipes and fittings shall be inserted through the forms at the plan elevations and securely anchored to prevent their being dislodged while concrete is being poured.

PCC shall be placed as per 320.

327.04 MEASURE AND PAYMENT

(A) SIDEWALK INTERCEPTOR DRAINS. The unit of measure will be the linear foot. Measurements will be made along the top surface of the drain out to the end walls. The actual number of linear feet of Sidewalk Interceptor Drain installed will be paid for at the contract unit price per linear foot, which payment will include excavation, disposal of surplus material, backfilling, compacting, furnishing, hauling, and placing all materials, including angle iron frame with anchors welded to it, setting existing or new grates in place, forming, painting, and all labor, materials, tools, equipment, and incidentals necessary to complete the work.

(B) CAST IRON DRAIN CONNECTIONS. The unit of measure will be the linear foot. The actual number of linear feet of Cast Iron Drain Connections of each size, measured complete in place, will be paid for at the contract unit price per linear foot, which payment will include excavation, disposal of surplus material, backfilling, furnishing, hauling, and placing all materials including fittings, doing all jointing and connecting, and all labor, materials, tools, equipment, and incidentals necessary to complete the work.

(C) CAST IRON GRATING REPLACEMENTS. The unit of measure will be the linear foot. The actual number of linear feet of Cast Iron Grating Replacements, measured complete in place, will be paid for at the contract unit price per linear foot, which payment will include furnishing, hauling and placing the grating, and all labor, materials, tools, equipment, and incidentals necessary to complete the work.

(D) GARAGE INTERCEPTING TRAPS. The unit of measure for Garage Intercepting Traps will be the cubic yard. The actual number of cubic yards of PCC determined from plan dimensions, will be paid for at the contract unit price per cubic yard, which payment will include one section of the inlet pipe and the necessary straight and 1/4 bend pipes to complete the goose-neck or waterseal of the outlet pipe, all jointing and connecting, and all labor, materials, tools, equipment, and incidentals necessary to complete the work.

Deductions will not be made for the volume of inlet and outlet pipes.